

CLAIM AMENDMENTS

Listing of Claims:

1. (currently amended) An apparatus for determining the location of a communication device (10, 40) within a wireless network, the apparatus comprising:
 - at least two transponder units (~~TPa-nm, TPb-nm, TPc-nm~~) with a reduced medium access control (~~MAC~~) stack unit (25), for communicating with the communication device (10, 40) when the communication device (10, 40) is situated in a coverage area of the wireless network; and
 - a processing unit (14) for deriving the location of the communication device (10, 40) within the coverage area in dependence on information received from the transponder units (~~TPa-nm, TPb-nm, TPc-nm~~).
2. (currently amended) An apparatus ~~Apparatus~~ as claimed in claim 1, wherein the processing unit (14) is integral to the communication device (10).
3. (currently amended) An apparatus ~~Apparatus~~ as claimed in claim 1, wherein the communication device (40) is a tag with a reduced tag medium access control (~~MAC~~) stack unit (65).
4. (currently amended) An apparatus ~~Apparatus~~ as claimed in claim 1 ~~any preceding claim~~ further comprising an access point unit (~~AP-n~~) coupled to the transponder units (~~TPa-nm, TPb-nm, TPc-nm~~), wherein the access point unit (~~AP-n~~) receives information from the transponder units (~~TPa-nm, TPb-nm, TPc-nm~~) and forwards the information to the processing unit (14).
5. (currently amended) An apparatus ~~Apparatus~~ as claimed in claim 4, wherein the access point unit (~~AP-n~~) is coupled to the transponder units (~~TPa-nm~~) via the communication device (10).

1 and receives information from the transponder units (~~TPa-nm~~) via the communication device
2 (~~10~~).

3 6. (currently amended) An apparatus ~~Apparatus~~ as claimed in claim 4 ~~or 5~~, wherein the at least
4 two transponder units (~~TPa-nm, TPb-nm, TPe-nm~~), the communication device (~~10, 40~~), and
5 the access point unit (~~12~~) form a basic service set (~~BSS-n~~).

6 7. (currently amended) An apparatus ~~Apparatus~~ as claimed in claim 1 ~~any preceding claim~~
7 comprising three transponder units (~~TPa-nm, TPb-nm, TPe-nm~~) within the coverage area.

8 8. (currently amended) A network comprising an apparatus as claimed in claim 1 ~~any of the~~
9 ~~preceding claims~~.

10 9. (currently amended) A method for determining the location of a communication device (~~10, 40~~)
11 within a wireless network, the method comprising the steps of:
12 arranging at least two transponder units (~~TPa-nm, TPb-nm, TPe-nm~~) with a reduced medium
13 access control (~~MAC~~) stack unit (~~25~~), for communicating with the communication device
14 (~~10, 40~~) when the communication device (~~10, 40~~) is situated in a coverage area of the
15 wireless network;
16 receiving information from the transponder units (~~TPa-nm, TPb-nm, TPe-nm~~); and
17 deriving the location of the communication device (~~10, 40~~) within the coverage area in
18 dependence on the received information.

19 10. (currently amended) A method ~~Method~~ as claimed in claim 9, wherein the step of deriving the
20 location of the communication device (~~10, 40~~) comprises a triangulation method or a
21 signature method.